

TrkB(Phospho-Tyr515) Antibody

Catalog No: #11327

Package Size: #11327-1 50ul #11327-2 100ul

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Description

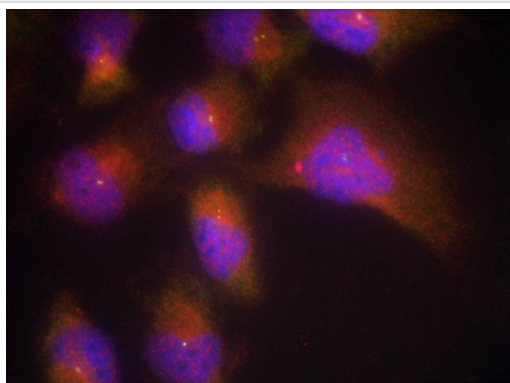
Product Name	TrkB(Phospho-Tyr515) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of TrkB only when phosphorylated at tyrosine 515.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of tyrosine 515 (P-Q-Y(p)-F-G) derived from Human TrkB.
Conjugates	Unconjugated
Target Name	TrkB
Modification	Phospho
Other Names	BDNF/NT-3 growth factors receptor precursor; GP145-TrkB; GP145-TrkB/GP95-TrkB; NTRK2; Trk-B
Accession No.	Swiss-Prot: Q16620NCBI Protein: NP_001007098.1
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

Predicted MW: 140kd

Immunofluorescence: 1:100~1:200

Images



Immunofluorescence staining of methanol-fixed HeLa cells using TrkB(Phospho-Tyr515) Antibody #11327.

Background

Receptor for brain-derived neurotrophic factor (BDNF), neurotrophin-3 and neurotrophin-4/5 but not nerve growth factor (NGF). Involved in the development and/or maintenance of the nervous system. This is a tyrosine-protein kinase receptor. Known substrates for the TRK receptors are SHC1, PI-3 kinase, and PLC-gamma-1.

Woronowicz A, et al. Glycobiology. 2007 Jan;17(1):10-24.

Mojsilovic-Petrovic J, et al. J Neurosci. 2006 Sep 6;26(36):9250-63.

Lewis MA, et al. Mol Pharmacol. 2006 Apr;69(4):1396-404.

Cai D, et al. Physiol Genomics. 2006 Feb 14;24(3):191-7.

Published Papers

YeeWen Candace Wu, Rachel A. Hill, Maren Klug et al., Sex-specific and region-specific changes in BDNF η — CTrkB signalling in the hippocampus of 5-HT1A receptor and BDNF single and double mutant mice., Brain Research., 1452:10-17(2012)

[PMID:22464183](#)

et al., The novel squamosamide derivative FLZ enhances BDNF/TrkB/CREB signaling and inhibits neuronal apoptosis in APP/PS1 mice.In Acta Pharmacol Sin on 2010 Mar by Li N, Liu GT et al..PMID:20154710, , (2010)

[PMID:20154710](#)

et al., Lactobacillus pentosus LPQ1 attenuates depressive-like behavior in BALB/C mice induced by chronic unpredictable mild stress (CUMS), , (2024)

[PMID:](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.